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# HIGHER SCIENCE



*of the*  
**MOTION & MATTER.**  
*A MAGAZINE DEVOTED TO  
SCIENCE, TRUTH, INVESTIGATION  
& MATTERS OF GENERAL INTEREST*

APRIL, 1904

**FRANKLIN H. HEALD**  
EDITOR AND PROPRIETOR  
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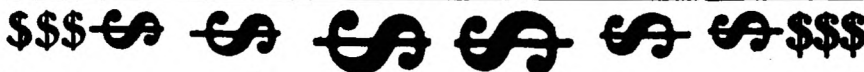
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# HIGHER SCIENCE

OF THE MOTION OF MATTER

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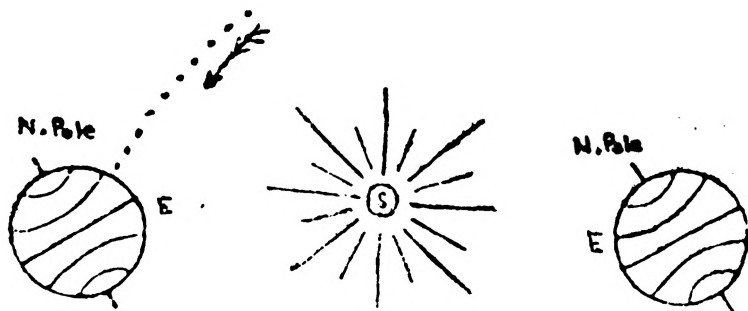
LOS ANGELES, CAL.

No. 4

## BEGINNING OF THE YEAR

A writer in the *Occasional One*, for January, and a friend of HIGHER SCIENCE, wonders why and by whose authority the year begins on the first day of January, as that day marks no event of importance. He goes on to show that it should begin, to people living north of the equator, on the day that the sun starts south, June 22, and to the people living south of the equator on December 22, when the sun starts north. We will agree with him if he will exactly reverse the time. December 25 or Christmas day, so-called, is the natural day of beginning and rejoicing for the year, north of the equator.

As the earth goes around the sun, it always points its north pole towards the polar star and therefor exposes one end to



the sun for six months and then the other, as illustrated by the cut.

It is the day when the sun (apparently) starts on his journey north, to bring renewed life, spring time and harvest and "Glad

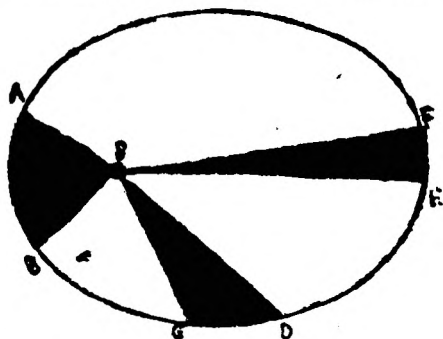
tidings of great joy." All nature feels the change of increasing heat. Nature is expanding and birds, animals, plants and every phenomena of life feels the effect. It is truly the beginning of a new year. The new year no doubt originally began on that great day and the great feast day has kept its proper place, and by corrections as the day fell farther back on account of the shortening of the earth's orbit, in slowly approaching the sun. It may be many thousands years since the first day of the year was established on the day on which the sun started north. The earth shortens its orbit, and gains speed so slowly that it is hard for us to realize that it does so. Suppose for an argument or rather to illustrate the *Processional Theory*, we say the earth gains one-tenth of a second in a year, then at the end of the second year it would have gained two-tenths seconds, plus a ratio for increased speed and shortening orbit. Every known truth of science points to the fact of a procession of planets. The Christian church can no more stop the procession than it can change the real date of so-called Christmas, as they tried to do when Charlamen established Christianity by killing descenders. All animal nature, of which man is a part, refuse to make the change or to be thankful and rejoicing in this high degree of joy except when this expanding force of increasing heat and life compels it. Let us change the beginning of the new year and keep it where it belongs as the sy dearial period shortens and the earth shortens its orbit and increases its speed.

## THE UP AND DOWN IN THE SOLAR SYSTEM

To me it seems perfectly simple that every direction from the sun, is up, until that part of space is reached where some other sun would be a trifle nearer or larger and have a greater attraction; except locally at planets or satellites, which have their own temporary centers of gravity, while on their own way to their superiors. It has been disputed and made the basis of a long magazine article however, and it therefore becomes incumbent upon me, to prove the point, which is one of the foundation pillars of the *Procession of Planets*. The law of gravity, discovered by Newton, should prove to any person of intelligence that the sun, being hundreds of thousands of times larger than any of its family of planets, must have an attraction for them, and the fact that they travel around it in an orbit also



shows to any person of ordinary intelligence that at any and every point in their orbits, the sun is drawing them towards it by the force of gravity, which necessarily makes the sun down, from any point of the orbit of a body traveling or falling around it. If it were not gradually falling towards the sun, a planet would stop. There is absolutely no other force to make it travel around the sun. Instead of stopping it continually increases its speed as it nears the sun, as we see by comparing the speed of Neptune, which travels 250,000 miles per day with the speed of Mercury which, in its fall has gained ten times the speed it had when at Neptune's orbit. The same law applies to the satellites, of which a planet is the temporary center. Locally, of course the center of the earth is down, at least as far out in space as the moon's orbit, and we know the people on the opposite side of the earth have their feet towards our feet when standing. (I add the last two words to eliminate the necessity of reading long letters quibbling over the fact that they might sometimes stand on their heads.—Ed.) The sun is, however, 1,300,000 times as large as the earth and therefore the earth's local center of gravity is a small space, when compared with the solar system, (see H. S. Feb. 1902, page 10). There is also another sure proof that the planets fall towards the sun and that it is therefore down from the planet, which I illustrate with the following cut, showing the exaggerated



elliptic orbit of the earth, which takes us 3,000,000 miles nearer the sun at one end of the orbit (perihelion) than at the other (aphelion).

When the earth is at the farthest end of its orbit, it is traveling at its lowest rate of speed in its orbit, and as it travels the next six months to its aphelion, it has neared, or fallen,

toward the sun 3,000,000 miles, gaining speed accordingly, (see *Introduction to Astronomy*, page 39 to 43). When it passes its aphelion or nearest point, it is going gradually away from the sun for six months, and travels slower and slower, as in the case of throwing a ball up into the air, until it turns the perihelion curve again and begins to fall. All these proofs of a "real up and down" in the solar system are measured in time, speed, length, etc., and proved. The radius vector is the three lines in the cut represented by SA, SC and SE. When the earth has passed from A to B, the radius vector has passed over the dark space SAB, in exactly the same time that it passes over the dark spaces SCD and SEF. The space covered by the three dark spaces are exactly the same size, and the time in passing from A to B, C to D and E to F, are exactly the same. These instances are absolute proofs of the fact that out or away from the sun is up, and toward the sun is down, from any part of the solar system or space, for millions of millions of miles.

### IMPORTANT PART ADMITTED

Mr. Franklin H. Head, editor of "Higher Science," is devoting a great amount of time and space to his *theory* of "The Procession of Planets," and while it is no doubt true that space is filled with substance and that a solar system contains a quantity of substance in a more condensed state than exists in intersolar space, it is something that one can put in a lifetime theorizing about with no practical result or benefit. The fact that heat expands and cold contracts physical bodies on the earth is sufficient evidence that it is the same throughout nature. There is nothing new in this idea. It may be good to teach children of five and seven in the kindergarten merely to impress their minds with the fact, but what more practical benefit is it? Every child—male child, at least—will have the fact presented vividly to his mind in due time, whether he is told it or not.

This theory is like that of the final end of man propounded by theosophy. It is so far away that it is of no practical benefit or consequence. It is like the theories of astronomers relative to the distances, movements and spectra of suns in the so-called milky-way—of no practical benefit to the people.

Admitting that Force and Matter result in the differentiation of physical form in the life of this planet, is it not important and of great practical benefit to all people to know the Law—the *Action of Force*—and how these varied forms of life are thus animated, influenced, individualized and affected, both physically and mentally? Is it not practical and beneficial from any point of view to be able to know every characteristic, trait, talent, disease and condition of a child the moment it comes into the world of physical expression?

It seems to us that these are matters which should and will engage the attention of every man, woman and child as the light of reason increases in human consciousness.

It is important that we know something practical relative to the

planets and their powers as they throb and pulsate their silent vibrations into our great globe of world life.

It is important that we know the deeper and inner nature of human kind, that we may better understand the relation of all created things; therefore, the study of Planetary Science and its application to Human Nature surpasses the study of the "theory" of "the Procession of the Planets" as does the sending of a message by telegraph surpass the transference of milk from a bottle to the mouth of a baby.—*Star Chamber Herald*.

If the Editor of the above "astrology" paper will get rid of the notion that there is anything in the "science" (?) of astrology, he will soon appreciate the practical value of finding out and teaching the true motions of matter. If he will read the first article in the first HIGHER SCIENCE magazine ever published (Nov., 1901), he will understand how the discovery of a procession of planets makes plain "the action of force and how these varied forms of life are animated, etc."

The position of the planets at the birth of a child can have no possible effect on the future of his life. Electricity is not a fluid passing around in currents from one heavenly body to another. It is simply a vibration of heat, as is light, motion or force and all other motions made by contracting and expanding of matter. The moon is near enough to the earth so that it effects a magnet needle slightly as it is changing distance in its elliptic orbit, but not to the extent that an explosion on the sun effects it, (see HIGHER SCIENCE, April, 1902, page 10). When one of the great explosions takes place on the sun, tearing a great black hole in its fiery surface, a suspended magnet will sometimes move entirely across its scale. There is no way to tell when these explosions are coming and they would certainly affect life more than the position of a few planets which scarcely affect the needle or magnet at all, and therefore scarcely any tidal effects on the water, atmosphere or expanded gaseous matter near the earth, (see H. S. April, 1902, page 10).

## LYNCHING

BY EDWIN C. WALKER

Editor Higher Science:—What you say regarding lynching, in reply to Senator Burton, might have a little applicability in frontier settlements where, as often happened in the pioneer days in the West, the officers of the law were in partnership with the criminals, but it has no applicability in the country today, for no one even suspects the officers of being in collusion or even sympathy with those who are lynched.

Again, the demoralizing effects of public killings of criminals or suspected criminals was at a minimum in the West in the early days, where there were very few women and children, while the demoralization produced by the killings and torturings of the present time is at the max-

inum, almost every such public crime being witnessed and often participated in by hundreds and even thousands of immature, nervous, and so easily impressionable, children and women.

Still again, the plea that lynchings are necessary because of the delays of the courts, is not sustained by the facts. In communities where the crime charged is certain to bring down severe punishment through the law, where all the machinery of the law is in the hands of those who fill the ranks of the mobs, lynchings are most frequent and cruel. Often and often a prisoner who has been put under sentence of death within a few days or weeks of the commission of his crime, after a "trial" that was indecent in its haste and disregard of vital legal forms, has been torn from the hands of the officers and hanged or shot or burned. So eager are the members of the mob to stain their hands with blood, to gloat over human suffering, that they will storm jails to secure a man who is under the very shadow of the gallows, put there by the degree of their own courts. They will and do kill men on the flimsiest of evidence, and in a day or two the telegraph tells us the murderers "got the wrong man," and that closes the chapter of horror. Under our Constitution and of right every man accused of wrong-doing is entitled to a trial by jury, to have counsel, to have the opportunity to summon witnesses and to compel their attendance, if necessary, to cross-examine the accusing witnesses, and to be regarded as innocent until he is proven guilty. The mob, which you call the "people," has no right to trample on the guarantees of fair play which are part of the law so long as its members stand ready to invoke those guarantees for their own protection when accused of crime. When they announce and prove their willingness to stand outside the protection of the law when they themselves are in the shadow of accusation, then they and you may plead—but not before—that they "are the law."

There is no doubt but that many criminals are promptly punished by law and especially if they stole a loaf of bread for their starving children, but let a man forge half a million dollars worth of notes on 120 different people, as was done here at Madera, by the ex-cashier of the bank of which the editor of this Magazine was president, and altho he received a long sentence to the penitentiary, he was promptly turned loose by the Governor, who belonged to the same church. Let a man commit a brutal murder or more, as in the case of Durant at San Francisco a few years ago, and he will only be executed by law after spending untold amounts of the public money, and only then from fear of increasing public indignation. The people are not apt to make a mistake and kill the wrong man, but suppose they do so once and suppose a murderer is turned loose and murders a dozen more innocent persons, or that the example of ease with which he "buys off" is the cause of a dozen other murders: is it not better to loose one innocent man by mistake than to loose a dozen by neglect or the dishonesty of what should be justice for the protection of innocent and honest people?



## IN THE TOILS

Sometime ago the editor of HIGHER SCIENCE received a request from the P. O. Dept. at Washington, to deliver a copy of April number, 1903, of said publication, to the P. M. of Los Angeles. This we did gladly, as there is some information in that number, which will do any person good, who has brains enough to comprehend it. Some weeks later we were informed by the P. O. officials here, that the Department considered the Magazine indecent, and we were threatened with two years in the penitentiary. It is not known at the office here, what part of the magazine is offensive to these glass-house officials at Washington, who are all under suspicion of robbing the government, and many under indictment. We have been extra careful in quoting from what God and Jesus Christ have said, and from the bible generally, to leave out all the indecent language and filth, and where that could not be done and retain sense to the quotation, we have simply referred to the book, chapter and verse; as in the case of the virgin daughter doctrine, thus: I Cor. chapter VII., 36 verse, (new version), which is a part and parcel of "the glad tidings of great joy," about which the mighty assistant head of the P. O. Dept. is making so much disturbance, by trying to force it down people's throats, who are not suspected of or indicted for robbing the public crib.

It cannot be possible that Mr. Madden's Catholic friends are at the bottom of this bluff, for the reason that although not a Catholic, the editor has a free pass to heavenly bliss, by order of the infallible representative of godalmighty on earth, which all the priests, devils, parsons, gods, W. C. T. U.'s, Assistant P. M. Generals, or any persons, who attend to other people's business, cannot dispute or revoke.

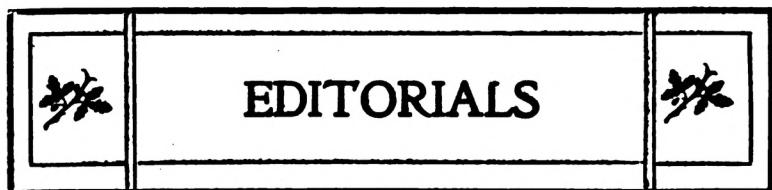
This then leaves only the following item found on page 104 of that number, for them to quarrel about, and inasmuch as they all hold their positions at the instigation of the present president (by chance).

"Thos. Payne was neither filthy, little or an atheist. He was one of the neatest and cleanest men of his time. (His character was also clean, the Church and Christianity to the contrary notwithstanding, and he was neither indicted or suspected of robbing the government), having both brains and pride (not vanity, as cowboys have). He was large and strong, being a six-footer, and we are sorry to say he was not an atheist, as he would be if he had lived in the twentieth century, but a deist. Any reports to the contrary are malicious falsehoods, usually called lies."

You are respectfully referred to a book called Gouverneur

Morris, by Theo. Roosevelt, p. 238. This book was evidently written to defend Morris, who was a traitor to the principles of our country, which he was sent to France to represent, at the same time when Thos. Payne was helping to deliver the people of that great nation, from the combined tyranny of aristocracy and priestcraft. We propose to hunt this matter down, and find out just how much damage the government can allow its suspected dishonest public servants to do private individuals, without paying a reasonable damage.

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We are just informed that the new *Crimes of Preachers* is out at last and we will have a supply in a short time and can then send to those who have waited so patiently.

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Judge Catlin of Montrose, Colo., delivered an excellent lecture before the "Fortnightly" Club March 4th, which is exceedingly complimentary to the discovery of a procession of planets. We hope to publish the entire lecture sometime soon if we can spare the room.

---

The Isthmian canal scheme, seems to be taking a "snooze" just now. Fact is, the fun of watching Russia get a good thrashing by the little men with good brains and no gods, and the regular one-year-off, for political schic mery, will keep the great mass busy until some other obstacle can be invented to save our shipping interests with the world for our own country.

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The best thing that has come to our table lately, is a little 15-cent book by Dr. Geo. W. Brown, of Rockford, Ills., "The teachings of Jesus," showing that they are not adapted to modern or any other civilization. It is the most convincing evidence of his foul and beastly life, ever written and should be read by every white christian in the world who has brains enough to reason.

Remember that the people who advertise in this Magazine are Free-thinkers and you may be sure they know their business, better than ignorant people who worship a god. Besides they are almost always honest, being intelligent, while christ and god-ridden people are not only ignorant and incompetent but almost invariably dishonest. Our advertisers deserve your trade.

---

"It is a wise child that knows his own parent," in a priest-ridden community. Now if there is anything indecent in this, send for a blank petition to congress, asking for sure protection for women, against the crimes of priests and parsons. Have white American citizens of the 20th century no more manhood than to allow these charity-fed, lazy paupers, to live off of the women and children?

---

The first move the Russians made in the present unpleasantness with Japan was to petition the throne of grace for help from above, and the first thing the Japs did was to send torpedoes up from below. While the ignorant god-ridden Russians had their eyes shut in supplication, the intelligent little Atheists, shot the bottoms out of their great battle ships.

---

One of our subscribers from way back in Oregon, where the moss grows eight inches long on the roofs and fences, objects to our theory and the composition, grammar and orthography of the second edition of the *Procession of Planets*... He says there is no such a word as bursted. All right. "Busted," then; we do not propose to quarrel over a little thing like that, but we do insist that the sun is a big globe of fire; at least on the surface.

---

A correspondent asks for the names of Freethought publications in America. The monthlys are: HIGHER SCIENCE, 219 Stimson bldg., Los Angeles, Cal.; *Freethot Rev.*, University bldg., Kansas City, Mo.; *The Adept*, Marksville, Minn., and *Examiner*, Paris, Texas. The Weeklys are: *Truthseeker*, 28 Lafayette Place, N. Y.; *Investigator*, Boston, Mass.; *Searchlight*, Waco, Texas; *Pink Iconoclast*, Colorado Springs, Colo. The above are all sound Atheists and disapprove of anything except matter and its motions which are made by its expanding and contracting.

---

We are compelled to say to you, our subscribers, friends and liberals, that we must be supported if HIGHER SCIENCE con-

tinues. If those who are behind on subscription will pay, it will be all right, or if ye could get one-tenth of the new subscribers that we should have, we would soon be independent, have 32 pages and many illustrations. Will you please attend to this little matter at once and help support a Magazine which does give absolute proof that there is nothing in existence but matter and its motions and that everything foreign to truth is evil.

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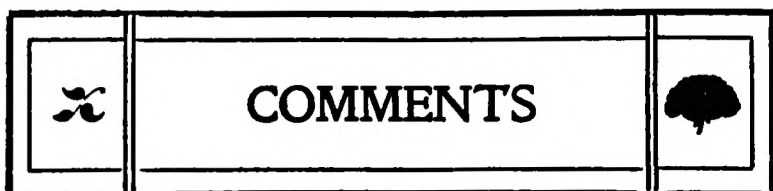
Dr. B. A. Wright, of this city, recently delivered a lecture before the Liberal Club upon the cure of lunatics, which is one of the best of this year. The Dr. has had a large experience, as the superintendent of State and private asylums, and has cured more hopeless and desperate cases probably, than any man who ever lived. The very foundation of his cures, is a support of the processional theory of the motion of matter, and proves that the mind can be changed and the brain and thinking regulated by the proper food and drink taken into the stomach, and surroundings to make suitable imprints upon the nervous protoplasm and produce proper consciousness. The Dr. is unfortunate in being very deaf, thus making it very difficult to be understood, but his experience and success proves the non-existence of any god or supernatural power or any other power, excepting the expanding and contracting of matter by different degrees of heat. To save the power of the medical fraternity, that they could rob the people, it was necessary to discourage Dr. Wright, the same as it was necessary to discourage Thos. Payne, more than a century ago in order to save the power of the clergy and aristocracy, to rob the poor and ignorant. We hope to have room and induce the Doctor to allow us to publish the lecture in a condensed form some of these coming months.

---

C. H. Hall, of Courtland, Kan., ordering blank petitions and signed order for the 400-page *Procession of Planets*, says:

\* \* \* Enclosed you will find an application for your coming book as per printed blank. Am deeply interested in your Procession Theory. It is too easily proven to allow of any doubt. Please send me a blank on that Eunuch preacher business; it is the only thing to do, and I hope it may become a law. Enclosed please find 10 cents for the same. Send me a dozen blanks and I will see that they are signed and returned with 10 cents each. \* \* \*





A belief in a god in whose wrath we walk every day of our life, gives us no hope that he would change to justice, love and mercy after we are dead.—*P. Fransman.*

Gambetta, the French patriot and statesman, declared that he would oppose "Woman Suffrage" as long as the priest, an unmarried man, continued to be the confessor of woman.—*Liberal Review.*

\* \* \* The world can't beat, or equal, the corps of writers the Blade has. The Searchlight, of Waco, Texas, and HIGHER SCIENCE of Los Angeles, Calif., are the next best, in my estimation. \* \* \*—*L. F. Mansfield in Blue Grass Blade.*

B. Hochle, of Mesa City, Ariz., says:

\* \* \* Have read several copies and it just suits me to a T.  
\* \* \* Change the address from Oracle, from which the drouth has driven me, to Mesa City.

Mrs. C. Kelsey, of Belleview, Fla., says of the Magazine:

\* \* \* I like it very much, indeed. I would have subscribed for it, but I am poor. I may be able next winter. If I am successful this coming summer I shall surely subscribe for it next winter, but dare not say send it until I know I can pay for it. \* \* \*

Robt. G. Wright, Country Treasurer of Denton Co., Texas, sends for books and subscribes for the Magazine, saying:

\* \* \* I want your Procession of Planets when out. I am an invalid and very poor, but I will do my part towards helping to enlighten humanity. Wishing you unbounded success. \* \* \*

Fred N. Lowe, of Goshen Mills, N. H., says:

\* \* \* Please stop sending H. S., as I am not able to pay for it. It is all right and I hope those who have the "dough" will help sustain it, as you deserve to succeed more than any god ever made by man. \* \* \*

Ah, Love! could you and I with him conspire

To grasp this sorry scheme of things entire,

Would not we shatter it to bits and then

Re-mould it nearer to the heart's desire!

—*Omar Khayyam.*

There is too much learning—too much empty admiration of so-called works of genius—and not enough expression of the Originality which all Men might give to the world in their own way.—*True Word.*

Too true; there is too much cramming of the young and

tender brains with what people who write text books, think they know. A college education is too much like religion and destroys too much of individual and original thinking.

Harry Hoover, of Carnegie, Pa., who is one of America's leading Freethinkers, cheers us as follows:

\* \* \* One dollar to help you pull up and burn the top-root of superstition. \* \* \* Your style suits me exactly. You have the courage of your convictions and are not afraid to call it a "spade." \* \* \* In a word of gush, pretense, fraud and lies, it is refreshing to find one man who dares to give utterance to the truth as he sees it. More power to your arm. Hit old Superstition straight between the eyes. \* \* \*

John S. Holman of Pontiac, Ills., says amongst other true statements:

\* \* \* HIGHER SCIENCE is the best of all. It lays C. C. Moore in the shade. I have a married son here who has four children old enough to take an interest in it and I enclose \$1.00 for you to send it to him \* \* \* . I am an out-spoken Atheist, all my life and my parents were Aethists \* \* \* .

J. W. Sawyer, of Grand Junction, Colo., says in part, in an encouraging letter:

\* \* \* By referring to your subscription list you will see that I am a regular reader of HIGHER SCIENCE. Have just finished the *Procession of Planets* and, like others, I want more. My health is bad, but if I am alive when the new book is out, I want two copies. \* \* \* I wonder how I can aid you in increasing the circulation of both HIGHER SCIENCE and the book. \* \* \* I inclose 50 cents for back numbers, which I will distribute where they may bring good results. \* \* \*

A stone that keeps rolling will gather no moss.—*Benj. Franklin.*

The rabble and religious imagine the above to mean that a man should stay in one place. *Poor Richard* was too smart a man to write such an item without a double meaning; one, for the ignorant and religious, and another for "he who hath ears for to hear and he who hath eyes for to see." The real meaning is—the man who get around amongst the people of the world will soon scour the moss crop off his back.

If the Czar and the Mikado, with their braggart and their bravado, would arm with sword and hand grenade and gun, and, defying wind and weather, meet and fight it out together, a confounded little damage would be done. But when lust for power is greedy, it arrays the poor and needy who've not a thing to kill each other for, and they fling themselves like cattle in the bloody ditch of battle—ah, old Greedy is the arbiter of war.—*Arkansas Traveler.*

Be careful there now, *Brother Traveler*, or you will be arrested, or at least threatened with two years' in the penitentiary,

as the Editor of HIGHER SCIENCE is, for telling the truth about Roosevelt.

---

Mal. Ch. IV, verses 1 and 2.—For behold, the day cometh, that shall burn as an oven; and all the proud, yea, and all that do wicked, shall be stubble; and the day that cometh shall burn them up, sayeth the Lord of hosts, that it shall leave them writhen root or branch. But unto you that fear my name, shall the sun of righteousness arise with healing in his wings; and ye shall go forth and grow up as calves in the stall.—*God.*

The last sentence probably refers to priests, parsons and saviors, while the first refers to those who have brains enough to know they are better than calves and suckers, and are proud of it.

---

Dr. Esther A. Van Riper, of Circleville, Ohio, who was the first lady to join the National Liberal Party and now an honorary Vice-President, says in a letter to the editor:

Dear Brother and Friend: Please send blank petition for the protection of women against the crimes of preachers \* \* \* I could write some very damaging information on the subject if I wished, but truth does not always sound well, more especially to the guilty, and coming from a lady in a position to prove what she knows \* \* \*. Hoping this will find you in better health and happy \* \* \*.

---

*The Occasional One*, a magazine published in N. Y., comments upon a lady's spiritual trip to Mars where she saw a wonderful and impossible people, which yarn was published in the *St. Louis Star*. After republishing the story *The Occasional One* concurs with the theory of a procession of planets as follows:

"While we believe that Mrs. Weiss is undoubtedly sincere in her statements—it is just this kind of nonsense which turns investigators from Spiritualism. But suppose we consider for a time, and accept her story as a fact—would she have found a superior race to us on Mars? We believe not. If she had made this trip to Venus, we would say it would seem more reasonable."

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A. P. Kyle, of 1001 Lincoln avenue, Ft. Wayne, Ind., makes the following very just complaint. We feel bad enough about the part we take in his disappointments, but propose that no one shall ever lose more than a postage stamp by trusting HIGHER SCIENCE, and would be glad to return even stamp if not liable to give insults.

\* \* \* A long time ago I ordered *Crimes of Preachers* of you, and have not received it yet. I have tried to get it of others and failed. I sent for *Freedom* last year, got two or three, and they were stopped and I lost the rest. I have sent for a number of others and only received a few of the books and papers, so I don't want much more such experi-

ence. It don't look just right to me. Send me the C. of P. if you can, and if you want more money, let me know. \* \* \*

W. C. Wagner, of St. Louis, Mo., compliments the Editor in part as follows:

I am forty-two years old and was brought up a Christian slave. \* \* \* Thanks to such men as Darwin, Heckel and yourself, I am free. Oh, sir, you cannot imagine the good you have done me by sending me that sample copy of *HIGHER SCIENCE*, Aug., 02. I can never repay you the debt I owe. If astronomy is true, you have undoubtedly demonstrated the evolution of matter. \* \* \* If your Procession of Planets is wrong, then Darwin, Heckel, Kepler and all the great men are wrong, and the Bible may be right. \* \* \* I think you are the greatest man of modern times, or whoever lived, because you have taken the labors of all the great men of the past and solved the riddle of the universe. \* \* \*

Keep your mouth shut and look wise and fools may think you are a sage; but the intelligent man knows that wisdom is expressed orally or with the pen. The ignorant and superstitious have little use for written thoughts.—*Julian Miner.*

In returning signed contract for third edition of *Procession of Planets*, Emil Fredrich, of Mt. Sterling, Ky., pays the theory the following compliment:

\* \* \* If the 400-page book is as full of facts as the little red one you send me, it is worth \$5.00 to any lover of truth. \* \* \* Find 25 cents inclosed for blank petition to Congress asking for the protection of women. \* \* \* Will you please answer the following questions:

If a strata of air one mile high could be pressed to one foot thickness, what would the relative transparency be?

What is the definition of nitrogen contained in our atmosphere? What is the relative density when in liquid form?

A few days ago I saw a meteor fall. When it seemingly reached to about a mile from the earth it changed its course upward in an angle of about 65 degrees, then slightly vaulting down again. Do the sides flatten by burning off through friction? As I can see the same phenomena in a brisk coal fire, it seems to be the solution of it. If not, please inform us.

1. The transparency would be the same, just as in the case of clear water or the same amount in the shape of vapor.

2. Density, same as air.

3. The meteor burns flat on the side which strikes the atmosphere and recochets; as a flat stone when it strikes the water, or as we see in the streak of lightning or the eagle's falling curve. (See notes 223 and 224, *Procession of Planets.*)

Mr. Franklin H. Heald, editor of *HIGHER SCIENCE*, holds that all changes are due to expansion and contraction caused by heat and cold, but he fails to show what causes heat and cold. We feel obliged to tell him that the specific combines, in Nature, which result in so many wonderful and intricate organic manifestations, show unmistakable signs of the work of another and ingenious factor—intelligence. Heat and cold cannot combine, evolve, endow and adapt.—*The Adept.*

Now just as likely as not the *Adept* editor will claim the



\$1,000 which we have been offering for three years for a motion, change, form or any phenomena or shape of matter or nature not made by relative degrees of heat, which means expanding and contracting by heating and cooling. He can have it and welcome, by showing such a motion. Heat is caused by combustion or the chemical reuniting of elements of universal matter, which causes friction. Intelligence is but a force and we are forced to do what we do, by the food and drink which we take into our stomachs. That, or intelligence, or consciousness is only caused by heating (expanding) or cooling (contracting). "Heat and cold can and do combine, evolve, endow and adapt everything. A drink of whiskey will change a man's mind and to many will destroy it. Starvation will do the same in the negative or contracting. Please do not ask which existed first, expansion or contraction. They were both at work when we came and we have only the motions to deal with. It is like asking who made your god (or intelligence) which it is very easy for you to believe, existed forever, and made himself out of nothing, before that.

**SEND TEN CENTS** to this office for a blank petition asking Congress to pass such law or laws for the protection of women as will compel all ministers of the gospels and priests of all religions practiced in the United States, to be or become unics before entering such profession. If you do not realize the necessity of such a law, read "The Crimes of Preachers," price 25 cents. Every active Freethinker in the United States should send for \$1.00 worth of these blanks, and they should be signed by forty million citizens, male any female, including every honest and consistent minister and priest. One blank, 10 cents; three for 25 cents; seven for 50 cents, or sixteen for \$1.00.

**N. B.** You can make life much easier for HIGHER SCIENCE, if you will spare a moment and drop us a postal card. If you have received more than one number as sample you have been recommended to us as a free thinker who is all right,—by a friend who knows you. Now if you would like to have it continued let us know and pay when convenient. If you do not want it at all, please ask your P.M. to notify us and greatly oblige. If you will only take this little trouble it will be a great help.

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